Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO. 30-025-26280

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. B-229-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. Type of Completion: NEW WELL [ ] WORK OVER [X] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR [ ] OTHER

7. Lease Name or Unit Agreement Name: Arnott Ramsay "NCT-B"

2. Name of Operator: Doyle Hartman

8. Well No. 8

3. Address of Operator: 500 N. Main St., Midland, TX 79701, (432) 684-4011

9. Pool name or Wildcat: Jalmat (T-Y-7R) Oil

4. Well Location
Unit Letter N : 660' Feet From The South Line and 1980' Feet From The West Line

Section 32 Township 25S Range 37E NMPM Lea County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. *(Ready to Prod.)*	13. Elevations *(DF & RKB, RT, GR, etc.)*	14. Elev. Casinghead
04/26/1979	05/02/1979	10/06/2001	2979' GR	2981'

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
3630'	3175'			0' - 3630'	

19. Producing Interval(s), of this completion - Top, Bottom, Name: 2735' - 3033' (Y-7R)

20. Was Directional Survey Made: No

21. Type Electric and Other Logs Run: DS-CNL-GR-CCL, VDCBL-GR-CCL

22. Was Well Cored: No

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24 #/ft	363'	12 1/4"	300 sx	Circ.
5 1/2"	15.5 & 14 #/ft	3630'	7 7/8"	900 sx	Circ.

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8"	3123'	

26. Perforation record (interval, size, and number)
2735' - 3033' w/ (28) 0.38" x 17" Holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2735' - 3033'	A/ 6450 Gal.
2735' - 3033'	SWF/ 210,227 Gal. & 500,000 #

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
10/06/2001	Flowing / Pumping (6.8 x 64 x 1 1/4)	Producing

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - BbL.	Gas - MCF	Water - BbL.	Gas - Oil Ratio
10/21/2001	24 Hrs	40/128		3	235	19	78.3 MCF/BBL

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - BbL.	Gas - MCF	Water - BbL.	Oil Gravity - API - (Corr.)
---	15 psig		3	235	19	

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*: Sold

Test Witnessed By: Don Mashburn

30. List Attachments

31. *I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief*

Signature [signature] Printed Name Steve Hartman Title Engineer Date 10/17/2005

RECEIVED OCT 2005 Hobbs OCD

2A Langlie Mattix SR - QN-GB KG

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt 2580'	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 2732'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers 2980'	T. Devonian	T. Menefee	T. Madison
T. Queen 3396'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T.	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn	T.	T. Permain	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

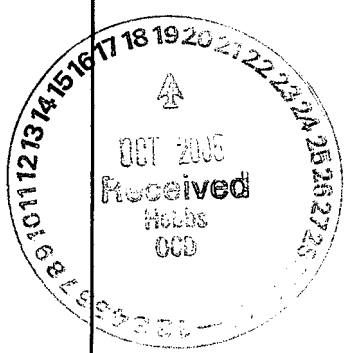
No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3, from ..... to ..... feet .....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology



Details of Completed Operations

Moved well service unit onto abandoned Arnott Ramsay "NCT-B" No. 8 well. Pulled and laid down corroded 7/8" x 3/4" rod string. Tagged PBTD at 3475'. Pulled and laid down corroded 2 3/8" O.D. tubing.

Rigged up welder. Installed 5 1/2" slip x thread collar. Installed B&M Oil Tool 5 1/2" x 2 3/8" x 3 1/2" 3000-psi Type-MR tubinghead.

Rigged up Schlumberger. Logged well with DS-CNL-GR-CCL log (from 2480' to 3475') and VDCBL-GR-CCL log (from 2110' to 3475').

Ran and set Baker 5 1/2" Model "C" packer at 3125'. Rigged up Halliburton. Squeeze cemented Langlie Mattix perfs, from 3334' to 3342', with 800 sx of API Class "C" neat cement, followed by 200 sx of API Class "C" cement containing 2% $CaCl_2$, 3 lb/sx Gilsonite, 0.25 lb/sx Flocele, followed by 200 sx of API Class "C" cement containing 3% $CaCl_2$, 3 lb/sx Gilsonite, 0.25 lb/sx Flocele. Displaced cement slurry with 15.4 bbls of water. Staged to a final squeeze pressure of 4034 psi.

Rigged up reverse drilling unit. Ran 182.44' bottom-hole drilling assembly consisting of 4 3/4" bit, 5 1/2" casing scraper, and (6) 3 1/2" O.D. drill collars. Drilled cement from 3227' to 3390'. Before drilling below 3323', pressure tested 5 1/2" O.D. casing, from 0' to 3323', to 2000 psi. Pressure held okay.

Hooked up air unit. Unloaded water to blowdown tank.

Covered squeeze perfs with 11 sx of 20/40 frac sand.

Rigged up wireline truck. Perforated 5 1/2" O.D. casing with a total of (32) 0.38" x 19" holes, with one shot each at:

2735	2766	2805	2830	2959	3225
2744	2776	2808	2833	2966	3227
2747	2781	2812	2946	2973	3243
2753	2797	2824	2950	3195	3246
2756	2802	2828	2956	3199	3252

3255
3259

Ran 5 1/2" Model "C" packer and 5 1/2" Model "C" RBP. Set 5 1/2" Model "C" RBP at 3285'. Raised 5 1/2" Model "C" packer to 3270'.

Spotted acid across and above perfs, from 2946' to 3259' (15 holes), by pumping 400 gal of 15% MCA acid, followed by 0.5 bbls of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 5 1/2" Model "C" packer at 2898'. Pumped an additional 200 gal of 15% MCA acid down 2 3/8" O.D. tubing. Let acid soak for 30 minutes.

Acidized perfs, from 2946' to 3259' (15 holes), with an additional 2700 gal (total of 3300 gal) of 15% MCA acid and 21 ball sealers, at an average treating rate of 4.5 BPM and average treating pressure of 1400 psi. Flushed acid with 17.4 bbls of 2% KCl water. TP_{mx}=3100 psi (at ballout). TP_{mn}=796 psi.

ISIP = 50 psi
1-min SIP = 0 psi

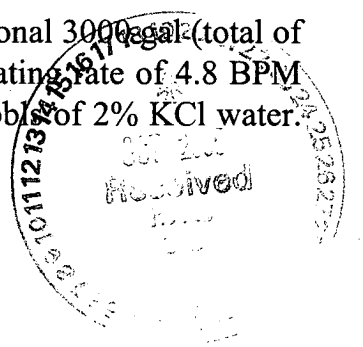
Surged off ball sealers. Displaced remaining 360 gal of 15% MCA acid.

Raised and set 5 1/2" Model "C" RBP at 2880'. Raised 5 1/2" Model "C" packer to 2850'. Spotted acid across and above upper perforations, by pumping 150 gal of 15% MCA acid, followed by 1.5 bbls of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 5 1/2" Model "C" packer at 2671'. Pumped an additional 150 gal of 15% MCA acid down 2 3/8" O.D. tubing. Let acid soak for 30 minutes.

Acidized upper perfs, from 2735' to 2833' (17 holes), with an additional 3000 gal (total of 3300 gal) of 15% MCA acid and 23 ball sealers, at an average treating rate of 4.8 BPM and average treating pressure of 1950 psi. Flushed acid with 14.2 bbls of 2% KCl water. TP_{mx}=3100 psi (at ballout). TP_{mn}=1100 psi.

ISIP = 77 psi
15-sec SIP = 0 psi



Pulled and laid down 5 1/2" Model "C" packer and 5 1/2" Model "C" RBP.

Ran and landed 2 3/8" O.D. tubing at 3285' (100 jts @ 32.38'/jt + 1.1' SN + 18' MA - 2' AGL + 10' KBC = 3285' RKB). Ran 3/4" API Class "KD" rod string and 2" x 1 1/4" x 12' RHAC insert pump. Commenced pumping well, on 8-15-01, at 6.8 Spm x 64" x 1 1/4".

Tested well as follows:

Date: 9-14-01
Gas Rate = 4 MCFPD
Water Rate = 6.7 BWPD

Moved in and rigged up well service unit, on 9-14-01. Pulled rods and tubing. Rigged up wireline truck. Set 5 1/2" CICR at 3175'.

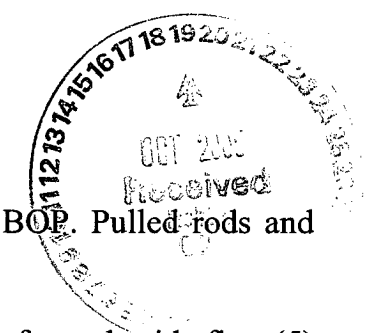
Ran 2 3/8" O.D. tubing equipped with cementing stinger. Stung into CICR. Squeeze cemented lower Jalmat perfs, from 3195' to 3273' (9 holes), with 300 sx of API Class "C" neat cement, followed by 200 sx of API Class "C" cement containing 2% $CaCl_2$, 3 lb/sx Gilsonite, 0.25 lb/sx Flocele. Displaced cement slurry with 12.5 bbls of 2% KCl water. Final displacement pressure was 750 psi, at a displacement rate of 1 BPM.

Pulled out of retainer. Pulled and laid down cementing stinger.

Ran and landed 2 3/8" O.D. tubing at 3123' RKB (95 jts @ 32.38'/jt + 1.1' SN + 18' MA + (2) 10' pup jts - 2' AGL + 10' KBC = 3123.2'). Ran 3/4" API Class "KD" rod string and 2" x 1 1/4" X 12' RHAC insert. Resumed pumping well at 6.8 Spm x 64" x 1 1/4".

Tested well as follows:

Date: 9-20-01
Gas = 4 MCFPD
Water = 0 BWPD



Moved in and rigged up well service unit, on 9-26-01. Installed BOP. Pulled rods and tubing.

Rigged up wireline truck. Ran 3 1/2" casing gun. Select-fire perforated with five (5) additional 0.38" x 19" holes, with one shot each at:

2986	3031
2989	3033
2903	

Ran and landed 2 3/8" O.D. tubing at 2717' RKB (83 jts @ 32.38'/jt + 1.1' SN + 18' MA + 2' CBJ - 2' AGL + 10' KBC = 2716.6').

Rigged up Halliburton. Performed CO_2 foam frac down 5 1/2" x 2 3/8" casing-tubing annulus, with 210,227 gal of gelled water and CO_2 (53.6% CO_2) and 500,000 lb of frac sand (10% 20/40, 15% 10/20, 75% 8/12), at an average treating rate of 37.3 BPM, and average wellhead treating pressure of 2336 psi.

ISIP = 1004 psi
5-min SIP = 938 psi
10-min SIP = 917 psi
15-min SIP = 899 psi

Left well shut in for one hour. Cleaned up well overnight to blowdown tank.

Rigged up high-volume air circulating equipment. Cleaned out frac sand to 3175'.

Raised bottom of 2 3/8" O.D. tubing to 3123.2' RKB (95 jts @ 32.38'/jt + 1.1' SN + 18' MA + (2) 10' pup jts - 2' AGL + 10' KBC = 3123.2'). Ran 3/4" API Class "KD" rod string and 2" x 1 1/4" x 12' RHAC insert pump. Commenced pump testing and cleaning up well, at 6.8 Spm x 64" x 1 1/4".

On 10-18-01, P/221 MCFPD + 4 BOPD + 17 BWPD; CP = 33 psi.